

STRUCTURE AND FABRICATION OF FLAT-PANEL DISPLAY  
HAVING SPACER WITH ROUGH FACE  
FOR INHIBITING SECONDARY ELECTRON ESCAPE

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ABSTRACT

A flat-panel display contains a pair of plate  
structure (20 and 22) separated by a spacer (24) having  
a rough face (54 or 56). When electrons strike the  
20 spacer, the roughness in the spacer's face causes the  
number of secondary electrons that escape the spacer to  
be reduced, thereby alleviating positive charge buildup  
on the spacer. As a result, the image produced by the  
display is improved. The spacer facial roughness can  
25 be achieved in various ways such as depressions (60,  
62, 64, 66, 70, 74, or 80) or/and protuberances (82,  
84, 88, and 92). Various techniques are presented for  
manufacturing the display, including the rough-faced  
spacer.

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